HANDLE VIA ████ ~~SECRET~~ ATTACHMENT II TO
CONTROL SYSTEM IDEALIST/████ ████-2463-67

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Copy I of 8

23 May 1967

MEMORANDUM FOR: Deputy for Operations, OSA 25X1A2g 25X1A6a

SUBJECT: Support for Project ████ at ████

1. On 24 March 1967, a meeting was held between
members of Operations and Comptroller's office to
discuss the impact of the move to ████ on Project 25X1A6a
25X1A2g ████ computer support. This report is a follow-up
to that meeting. It outlines four possible alternatives.

2. Some of the basic assumptions affecting the
alternatives in this paper are:

25X1A2g a. The design specifications to have the Project
████ program built for operational usage during
mission countdown have not changed.

25X1A2g b. The ████ program will terminate as planned
in January of 1968 and that data processing support
for that project will cease at that time.

25X1A2g c. Project ████ requires no data link communi-
cation equipment at ████ and can solve their
communication needs by couriering. 25X1A6a

d. The Automation Division will cease to exist
in January of 1968.

25X1A2g e. Project ████ will be turned over to OSA
Intelligence Division in May of 1967.

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GROUP I
Excluded from automatic
downgrading and
declassification

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CONTROL SYSTEM

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   f.   OCS will provide computer programming and
program analysis support to Project ▮▮▮▮ as   25X1A2g
directed by OSA Intelligence Division.

   g.   High speed data communications to remote   25X1A2g
sites is not anticipated for Project ▮▮▮▮ data.

   h.   The EAI 3440 data plotter will be transferred
to OCS or some other component at the termination of
Project ▮▮▮▮ 25X1A2g

   3.   Alternative #1 - The first alternative is to
courier information to and from the OCS computer in
Project Headquarters. Courier time per trip runs between
15 to 30 minutes and would satisfy the Project ▮▮▮▮   25X1A2g
requirement if a two-hour time frame is acceptable per
computer run.

      a.   OCS computers and support hardware would
   be used and, therefore, no data processing equipment
   would be required at ▮▮▮▮   25X1A6a

      b.   The personnel requirement would be satisfied
   with three people: one systems analyst, who would
   interface between all supporting units, and two
   operator analysts, who would maintain computer files
   and act as couriers to and from Headquarters. The
   three OSA individuals would be designated as a
   Branch within the OSA Intelligence Division. In
   addition, OCS would provide one and possibly two
   computer programmers.

      c.   The OSA cost incurred by this alternative
   should not exceed the salaries of the three OSA
   personnel. It is estimated that not more than
   three hours per day would be used on the computer.
   This cost will be borne by OCS and would be
   approximately $150 per hour.   25X1A6a

   4.   Alternative #2 - This plan calls for a UNIVAC
1004 data link communication between ▮▮▮▮ and the
fifth floor. Program input would be generated at ▮▮▮▮   25X1A6a
25X1A6a   ▮▮▮▮ key punched at ▮▮▮▮ and transmitted via 1004.
On the fifth floor this information will be received,
            25X1A6a

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collated with other input data and couriered to the OCS
computer center. After the run has been made, the out-
put information will be couriered back to the fifth
floor and transmitted to ▬▬▬▬▬ via 1004. 25X1A6a

    a. The three personnel described in Alterna-
tive #1 would be required to man the remote data
link terminal.

    b. The space requirement for the two operators,
the terminal and key punch equipment would be 500
square feet. This area should be shielded to Commo
specifications due to machine radiation. The third
individual, the systems analyst, would be seated
within the Intelligence Division.

    5. Alternative #3 - Under this plan an IBM 2780   25X1A6a
on-line computer terminal would be installed at ▬▬▬▬▬▬
In November/December 1967 an on-line remote terminal can
25X1A6a be installed between ▬▬▬▬ and the OCS IBM 360 computer
allowing card reading, card punching, and printing at a
maximum cost of $3,000 per month. This would reduce the
run time per job to the absolute minimum - approximately
45 to 60 minutes per run. A key punch and verifier will
be required for source document generation at ▬▬▬▬▬ 25X1A6a

    a. The reason for the choice of the IBM console
as opposed to the UNIVAC 1004 was a software decision.
IBM supports the 2780 and not the 1004. OCS has indi-
cated a preference to remain with one manufacturer,
and I feel this is a wise decision.

    b. The three OSA personnel described in Alter-
native #1 would be required to man the remote terminal.

    c. The space requirement for the two OSA operator
personnel and the terminal and key punch equipment
would be 500 square feet. This area should be shielded
to Commo specifications due to machine radiation. The
third individual would be seated within the Intelligence
Division. 25X1A6a

    6. Alternative #4 - This alternative requires OSA to
purchase or lease their own computer at ▬▬▬▬▬ The cost

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of such a system would be approximately $22,500 per month.
A T/O of 16 slots, similar to the structure of the ADP
Division, would be required as an absolute minimum. The
space requirement over and above that required for personnel
would be 1600 square feet.

        7.   Alternative #1 can only be considered an adequate
solution after a decision regarding the program's usage has
been made. This decision is not expected until August 1967.
If we adopt this alternative now and do not allocate facili-
25X1A6a ties at ▇▇▇▇▇▇ and later decide a remote terminal is
required, a major facilities problem will arise. Therefore,
it is suggested that we drop further consideration of Alter-
native #1.
                                                           25X1A6a

        8.   A UNIVAC 1004 data link communication between ▇▇▇▇
25X1A6a ▇▇▇ and the fifth floor center seems to be impractical
because it only eliminates the courier, increases costs, and
does not measurably decrease the run time required per mission.
I do not feel that the five or ten minute decrease in turn-
around time adequately justifies this alternative.

        9.   Since it is projected that OSA will require only
three hours of computer support per day as a maximum, Alter-
native #4 appears to be unrealistic. The side benefits of
having absolute control over the ADP effort do not appear to
justify this alternative. Furthermore, the decrease in response
time per run over Alternative #2 or #3 would not exceed 15
minutes. Therefore, it is suggested that OSA cease any further
consideration of a computer facility at ▇▇▇▇▇▇   25X1A6a

        10. It is suggested that Alternative #3 be adopted
because it best balances the factors of cost, time, human
resources, and available hardware. The alternative decreases
the wait-time for computer output to an absolute minimum.
The relatively small cost per month ($3,000) gives the maximum
in data processing capability and a change in requirements or
implementation should be the only reason to alter this alter-
native.

            a. Immediate action be taken to plan for a shielded
            area of 500 square feet for ADP equipment and personnel
25X1A6a   at ▇▇▇▇▇▇

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    b. The ADP Division be tasked to determine the
exact operational hardware and software requirements
for implementation of a computer remote terminal.
The due date for this study to be 1 August 1967.

    c. Task OCS to immediately order an IBM 2780
terminal and associated equipment for delivery in
November of 1967. This action is required to insure
hardware availability due to equipment lead times.
The equipment can be cancelled sixty days prior to
delivery without penalty.

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    d. Task the Intelligence Division to determine
the best manner with which to use the Project ████
program. At this stage the program is coming out of
an R&D environment and its use in an operational en-
vironment is yet to be determined. If the program
is not to be used during the actual countdown, a
remote at ████████ should not be required. This
determination can only be made after rather extensive
study of the program's internal mechanisms. A firm
determination must be made by 1 August 1967 in order
to insure console installation by 1 January 1968.

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    e. Task the ADP Division with the responsibility
to staff the two operator analysts slots from the ADP
Division T/O. The effective transfer date to be nego-
tiated at a later date based upon ████ and Project
████████ requirements.

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    f. Task OCS with a software support requirement
when a firm determination has been made regarding the
computer remote terminal. A feasible installation
date for the computer remote terminal is 1 January 1968
provided exact specifications be given to OCS prior to
1 September 1967.

    11. In conclusion, it is recommended that Alternative #3
as outlined in Paragraph #5 be adopted and implemented.

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                        Chief
        Automatic Data Processing Division, OSA

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CONCURRENCES:

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Chief, Intelligence Division, OSA

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Chief, Communications Division, OSA
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Chief, IDEALIST Division, OSA

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Deputy Director of Computer Services

APPROVED:

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████████████████

Deputy for Operations, OSA

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C/ADP DIV/O/OSA/████████:jn
Distribution:
    1 - C/ADP Div/O/OSA
    2 - D/O/OSA
    3 - C/Intel Div/O/OSA
    4 - C/IDEA Div/O/OSA
    5 - DD/CS
    6 - C/Commo Div/O/OSA
    7 - Chrono
    8 - RB/OSA

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